U.S. Appln. No.: 10/721,752

Attorney Docket No.: 543822002300

AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

Listing of Claims:

(Currently amended) A method Method for fabricating a semiconductor structure having the steps of, comprising:

providing a semiconductor substrate (10);

providing a plurality of trenches (G11, G12; G21)-in the semiconductor substrate (10) using a first hard mask-(50), which trenches are arranged offset with respect to one another in rows (r1, r2) and columns (s1, s2, s3);

causing the hard mask (50)-to recede by a predetermined distance (Δ) -with respect to thea trench wall at thea top side (OS) of the semiconductor substrate (10) for the purpose of forming a first hard mask (50') that has been caused to recede:

providing an isolation trench structure (ST) in the semiconductor substrate (10) using a second hard mask-(HM), the isolation trench structure (ST)-subdividing the first hard mask-(50') that has been caused to recede along the rows $\frac{(r_1, r_2)}{r_3}$ into strip sections $\frac{(50_1', 50_2'; 50_3')}{r_3}$ and the strip sections $(50_1'; 50_3')$ of adjacent rows (r1, r2) being arranged offset with respect to one another;

the receding process resulting in a reduction of an overlap region (KB') between two strip sections $(50_1'; 50_3')$ of adjacent rows (r1, r2)-in comparison with an overlap region (KB) which would be present without the receding process;

removing the second hard mask (HM); and

filling and planarizing the isolation trench structure-(ST) with a filling material (FI) using the first hard mask (50') subdivided into the strip sections $(50_1', 50_2'; 50_2')$.

2. (Currently amended) The method Method according to claim 1, characterized in that wherein the trenches (G11, G12; G21) each have a trench capacitor with a corresponding filling (20), which is sunk with respect to the top side (OS) of the semiconductor substrate (10).

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3. (Currently amended) The method Method according to claim 1-or 2, characterized in that wherein the receding process is realized by an isotropic, preferably-wet-chemical, etching process, as a result of which the a thickness of the first hard mask (50') that has been caused to recede is reduced in comparison with thea thickness of the hard mask (50).

- 4. (Currently amended) The method Method according to one of the preceding claims, characterized in that claim 1, wherein the first hard mask (50) is composed of silicon nitride.
- 5. (Currently amended) The method Method according to one of the preceding claims, characterized in that claim 1, wherein the second hard mask-(HM) is composed of silicon oxide.
- 6. (Currently amended) <u>The method Method</u> according to one of the preceding claims, characterized in that claim 1, wherein the filling material (FI) is composed of silicon oxide.
- 7. (Currently amended) The method Method according to one of the preceding claims, eharacterized in that claim 1, wherein the receding process results in complete elimination of an overlap region (KB') between two strip sections $(50_1'; 50_3')$ of adjacent rows (r1, r2).